

✓4. Studies on the deviations of the plumb line. (In German) J. Reiner, Acta Technica Academiae Scientiarum Hungaricae, Vol. 15, 1950, No. 1-2, pp. 37-75, 14 figs., 6 tabs.

The study introduces a method by means of which it is relatively easy to compute the deviations of the vertical from the results of the measurements obtained with the Bötzis torsion balance. Basis of the calculation method is the quadratic network which renders possible the computation of the difference between deviations of the vertical along the sides of the equilateral rectangular triangles. The actual observation data should be interpolated for the angular points of the quadratic network. Observational equations exceeding the number of unknowns occur in a continuous field; this circumstance justifies the application of the method of least squares. Data covering astro-geodetic measurements are required for the interpretation of the deviations from the vertical. The paper presents a critical study of the Hantek method based upon the application of the higher derivatives, and investigates the computation on the basis of Stokes's theorem determining the components of the deviation from the vertical from gravity anomalies. The deviations

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J. RENNER

From the vertical are of importance for geophysical prospecting as it is possible to draw conclusions from the deviation of the vertical computed from the subterranean anomalies in respect to subterranean mass distribution. The deeper seated mass irregularities often produce a greater effect on the deviation from the vertical than on horizontal gradients. An other important application of the computation of the deviations from the vertical render possible the detailed study of the surface of the geoid and therefore is important from the viewpoint of geodesy.

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RIEDL, O.; HRUSKOVA, J.; STUCHLIKOVÁ, E.; KOMARKOVÁ, A.; NOVOTNÁ, [REDACTED]  
BLAZKOVA, B.; TENOROVÁ, M.; RENNER, J.; SPALA, M.; TVAROH, F.;  
Technical Assistance: ATANASOVÁ, J.; TRUKOVÁ, R.

Treatment of obesity with caprolactam. Rev. Czech. med. 9  
no. 3:167-182 '63.

1. Fourth Medical Clinic, Faculty of General Medicine, Charles  
University, Prague. Director: Prof. M. Fucik, M.D. Central  
Laboratory, Faculty Hospital, Prague. Director: Dr. J. Hrabane  
Institute for General and Experimental Pathology, Faculty of  
General Medicine. Director: Prof. J. Hepner, M.D. Endocrinolo  
logical Department, University Health Centre, Regional Institute  
of National Health, Central Bohemian Region. Director: Doc.  
F. Tvaroh, M.D.

(OBESITY) (AMINOCAPROIC ACID)  
(PYRUVATES) (CITRATES) (LACTATES)

RENNER, J.

Report on the gravitational investigations in Hungary in 1954-56. In English.

p. 117. (ACTA TECHNICA) Vol. 18, no. 1/2, 1957  
Budapest, Hungary

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3,  
March 1958

RECORDED

Recent investigations in the field of plumb-line deflections; excerpts from an article. p. 94.  
(*ÖVFIZMAMET*, Vol. 21, no. 1/4, 1957. Budapest, Hungary)

See: Monthly List of East European Acquisitions (EAL) DR, Vol. 6, no. 12, Dec. 1957.

RENNER, Janos

Final elaboration of the Hungarian national gravitational base  
network. Geofiz kozl 8 no.3:105-141 '59.

RENCZ, J.

Investigations of the force of gravity in Hungary since Lorand Eotvos; also, remark by I. Kadar. In German. p. 227.

ACT. TECHNOL. (Magyar Tudomanyos Akademia) Budapest, Hungary.  
Vol. 23, no. 1/3. 1959.

Monthly list of east European accessions (EEL). LC. Vol. 8, no. 1, Jan. 1960.  
Unol.

HENKEL, J.; SZIVARD, J.

Gravity network of Hungary. In English. p. 365.

ACTA TECHNICA (Magyar Tudomanyos Akademia) Budapest, Hungary.  
Vol. 23, no. 4, 1959.

Monthly list of East European Accessions (EMAI) LC, vol. 9, no. 1, Jan. 1960

Uncl.

S/035/62/000/002/039/052  
A001/A101

AUTHOR: Renner, János

TITLE: Studies of vertical deflections

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 2, 1962, 25,  
abstract 2G152 ("Geofiz. közl.", 1960, v. 9, no. 1-2, 44-50,  
Hungarian)

TEXT: The author investigated the relation between astronomic-geodetic deflections of the vertical at 22 points, corrected for the effects of topography and isostatic compensation by means of Darling's tables ("Fundamental tables for the deflection of the vertical", Washington, 1949), and isostatic gravity anomalies in the North Carpathians. A density distribution scheme is proposed which explains the vertical deflections in Slovakia. The vertical deflection for the astronomic-geodetic point Erdőhegy was calculated from the map of isostatic anomalies by the Vening-Meynes formula. A difference of 0".24 was noted in determining the effect on vertical deflection of topography of the central zone with the 125-m radius from the 1:25,000 topographic map and results of leveling.

There are 8 references.

F. Sharkozi

[Abstracter's note: Complete translation]

Card 1/1

EGYED, Laszlo, lev.tag.; SZADECZKY-KARDOSS, Elemer, akademikus; BARTA,  
Gyorgy, a muszaki tudomanyok doktora; RENNER Janos, a muszaki  
tudomanyok doktora

Dynamics and development of the earth; also, remarks by E.Szadeczky-  
Kardoss and others. Muszaki kozl MTA 27 no.1/2:133-162 '60.  
(EEAI 10:4)

1. Magyar Tudomanyos Akademia, Muszaki Tudomanyok Osztalya.  
(Earth)

RENNER, J., D.eng.Sc.

Gravity research in Hungary in the years 1957 through 1959. Acta  
techn. Hung 30 no.1/2:11-14 '60. (EEAI 10:1)  
(Hungary--Gravity)

RENNER, Jance

The vertical line deflection in certain areas of diagram, file  
kozl 13 no.1:33-371 '64.

RENNER, Janos

The Eotvos' experiment. Fiz szemle 14 no. 1: 6-10 Ja '64.

1. Eotvos Lorand Geofizikai Intezet, Budapest.

RIEDL, O.; HRUSKOVA, J.; STUCHLIKOVÁ, E.; KOMARKOVÁ, A.; NOVOTNÁ, B.;  
TENOROVÁ, M.; REINER, J.; TVAROCH, Fr.; ATANASOVÁ.

Effect of caprolactam on the metabolism in obese subjects and  
preliminary observations on the treatment of obesity. Sborn.  
lek.62 no.12:338-349 D '60.

1. IV. interní klinika fakulty všeobecného lekarství University  
Karlových Várad, prednosta prof.dr. M.Fucik; Centralní laboratoře  
fakultní nemocnice v Praze 2, prednosta dr. J.Hrabánek; Endokrino-  
logické oddělení FZS - KUNZ - KNV Praha, vedoucí doc.dr. Fr.Tvaroch.  
(OBESITY ther)  
(HETEROCYCLIC COMPOUNDS ther)

ZELENKA, V.; RENNER, J.

Effect of renal enzymes on the smooth muscles of aging organs.  
Biol. listy 31 no.3-4:273-276 Jan 51. (CLML 20:5)

1. Of the Institute of Experimental Pathology of the Medical Faculty (Head--Prof.Jos.Hepner,M.D.).

*RENNER, J.*

10. The effect of temperature on the rate of peptization  
of hydrophilic gels. J. Rennér. Magyar Kémiai  
Polydokl., Vol. 82, 1950, No. 11-12, pp. 390-395, 16  
figs., 3 tabs.

The rates of peptization of  $\text{Fe(OH)}_3$ ,  $\text{Al(OH)}_3$ ,  
 $\text{Cr(OH)}_3$  and Prussian Blue gels was measured at 0, 15,  
25, 35 and 50° C. In the case of the hydroxides hydrochloric  
acid, sodium hydroxide and the corresponding chlorides  
were used as peptizers whereas for Prussian Blue potassium  
oxalate was employed. The curves, representing the  
rate of peptization are S-shaped and can be defined by  
an equation valid for monomolecular autocatalytic  
reactions,  $\frac{d(x_0 - x)}{dt} = (k + k'x)(x_0 - x)$  where  
 $x$  = peptized quantity in time  $t$ ;  $x_0$  = total amount  
of peptizable material;  $k$  and  $k'$  = constants, their  
value depending upon the quality and quantity of  
the gel, upon the concentration of the peptizer and  
upon temperature. By increasing the peptizer concentra-  
tion or the temperature the rate of peptization increases,  
the points of inflection shifting toward the lesser values  
of  $t$  and finally disappearing. In this case the above  
equation will be reduced to the following expression:

$$\frac{d(x_0 - x)}{dt} = h(x_0 - x). \quad \text{The temperature function}$$
  
of constant  $h$  varies with the Arrhenius equation. The  
values of the heats of activation of the peptization

2  
1-4E3d  
1-4E4s

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RENNER, J.

calculated by this equation are of an order of magnitude of 10 kcal/mol, the activation heat of adsorption peptization being smaller than that of chemisorption peptization. According to former investigations, the peptization rate vs. time diagram of hydrophobic iron oxide gels has a maximum as a result of mechanical coagulation while the rate of peptization of hydrophilic gels may be described in each case by an ascending curve tending toward a limit value.

2  
1-4E3d  
1-4E4j

2/2  
Q2

CERVENY, O.; RENNER, J.; SCHLUPEK, A.; TVAROH, F.

Use of methylthiouracil in claudicatio intermittens. Sborn.lek.  
62 no.3:69-79 1960.

1. IV. interni klinika fakulty vseobecneho lekarstvi University  
Karlov v Praze, prednosta prof.dr. M. Fucik. Ustav pro vseobec-  
neho a pokusnou patologii fakulty detskeho lekarstvi University  
Karlov v Praze, prednosta doc.dr. V. Zelenka. II. patologicko-  
anatomicky ustav fakulty vseobecneho lekarstvi University Karlov  
v Praze, prednosta prof.dr. V. Jedlicka. KUMZ Praha-Klimentkska,  
endokrinologicke oddeleni; doc.dr. F. Tvaroh.  
(INTERMITTENT CLAUDICATION ther.)  
(THIOURACIL rel.cpds.)

RENNER, Janos, dr.

State of gravitational basic research. Geod kart 15 no.1:  
42 42 163.

RENNERT, A.; GUBANSKI, M.

Ribonuclease from lichen Cetraria islandica (Ach). Acta soc  
botan Pol 31 no.1:25-30 '62.

MOYCHO, W.; GUBANSKI, M.; RENNERT, A.

Lichens as inhibitors of the Tobacco mosaic virus. Nauki matem  
przyrod Torun no.6:23-26 '60.

1. Zaklad Fizjologii Fungi, Uniwersytet, Lodz.

RENNERT, A.; GUBANSKI, M.

Influence of bee products upon the growth of plant tissues in vitro. I. Influences of honey and pollen extract upon the growth of the tissues of the bacterium tumor Nicotiana tabacum and Crotalaria spectabilis. Acta soc botan Pol 31 no.3:545-552 '62.

1. Katedra Fizjologii Roslin, Uniwersytet, Lodz, ul. Narutowicza 68.

LUKASIAK, H., REINERT, A.

Pectin-methyl-esterase in normal and tumor tissues of Nicotiana tabacum. Acta soc botan Pol 34 no.1:113-116 '65.

In Department of Biochemistry and Department of Plant Physiology of the Lodz University. Submitted June 3, 1964.

RAMONA MACHALA, ALIBA; WILHELM, JAKUB

Effect of higher exponents on the growth of *Puccinellia* species.

Nauki rolnicze przyrod. Lata 1993, tom 16, z. 1, s. 1-10.

Department of Plant Physiology, University, Lodz.

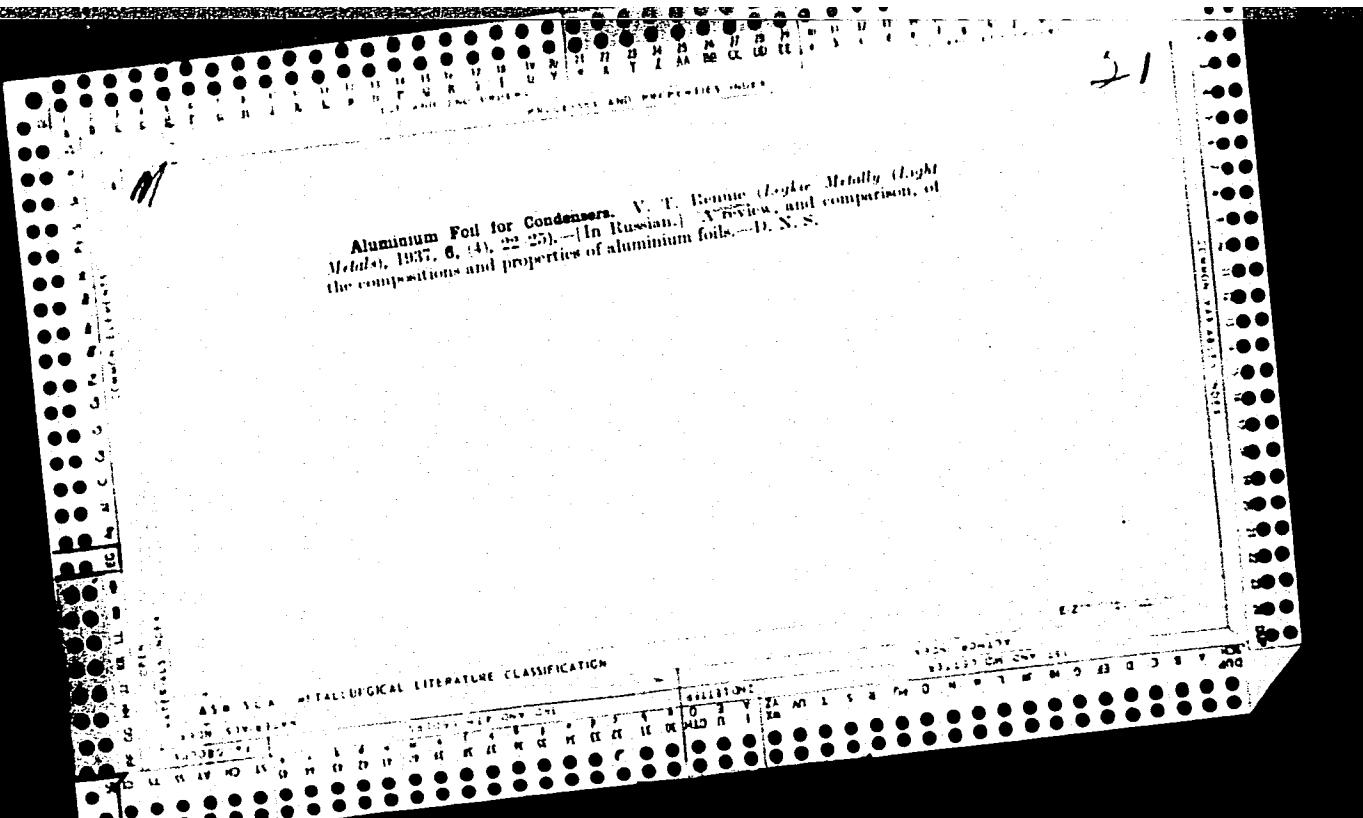
RENNGARTEN, N.Y.

B.C.

Zeolite from the mordenite group in the Upper Cretaceous and Palaeogene marine deposits of the eastern slope of the Urals. N. V. (693). - The marine sediments of the Danian stage and the Palaeogene of the eastern slope of the Urals contain authigenic monocline zeolite from the mordenite group. Its presence distinguishes the Danian strata from the lower Cretaceous horizons. It is suggested that the zeolite crystals were formed and developed in fresh marine sediment below sea level, as a result of interaction of sea-H<sub>2</sub>O with weathering products of aluminosilicate terrigenous material.

L. J. J.

APPENDIX - RETALIOPOLY LITERATURE CLASSIFICATION



REF ID: A

Ekonomicheskiye Vnaimootnosheniya Estonii I SSSR do 1940 g. (Estonian-Soviet Economic Relations Before 1940) Tverdichen, 1975.  
53 p. (Issledovaniya I Materialy Seriya 2; Zetiternyye Izd. no. 19)  
At Head of Title: Institut po Isucheniiu Istorii I Kul'tury SSSR.

SC: 25m/6  
122.46  
.R4.

REN'0, Martin [Regnault, Martin]

Life colors. Nauka i zhizn' 30 no.3:49-50 Mr '63. (MIRA 16:5)  
(Color variation (Biology))

RENNO, Clay; TAMM, F., red.

Matsalu, Tallinn, Kirjastus "Eesti Raamat," 1965. 103 p.  
(MIRA 18:4)  
[In Estonian]

RENNO, O.Ya.

Matsalu.. Priroda 49 no.10:57-62 o '60.

(MIRA 13:10)

1. Direktor Matsaluskogo gosudarstvennogo zapovednika, ~~Estonskaya~~  
SSR.  
(Matsalu Preserve)

RENNO, O.Ya.

Nesting of the black-tailed godwit (*Limosa limosa* (L.)) in  
the inner regions of western Estonia. Trudy Probl. i tem.  
sov. no.9:246-249 '60. (MIRA 13:9)

1. Tartuskiy gosudarstvennyy universitet.  
(Estonia--Snipes)

RENOVA, T.G., dotsent (Sverdlovsk)

Pathogenesis and clinical aspects of respiration disorders in the acute period of closed brain trauma. Klin.med. 34 no.10:27-30 0 '56.  
(MIRA 10:1)

1. Iz Fakul'tetskoy terapevcheskoy kliniki (zav. - prof. B.P. Kushlevskiy) Sverdlovskogo meditsinskogo instituta.  
(BRAIN, wounds and inj.  
causing resp. disord., pathogen. & clin. aspects)  
(RESPIRATION  
disord., caused by closed brain inj.)

BALAŠČÁK, J., DVM; RENOZ, K., DVM.

Czechoslovakia

Brno, Veterinářství, No 2, 1963, pp 57-59

"Pasteurelloses of the Sheep Caused by Haemolytic  
Pasteurella." 1

2

4/1/74  
8

\* Electrically conductive graphite paint. A. N. Novikov,  
T. A. KERINA, and E. D. FILYANSKAYA. *Vestnik Elek-*  
*tronom.*, 12 [4] 32-34 (1941); abstracted in *Physik. Ber.*,  
23 [17] 1000 (1942).—If certain parts of porcelain insu-  
lates are to be electrically conductive, the authors  
recommend using, instead of a sprayed-on metallic coat-  
ing of Cu, Al, or Zn, a coating of flaky graphite (1200 gm.)  
with a maximum of 15 to 20% water, 2 to 3% ash, and  
100 gm. oil lacquer with 40 to 50% film formers, diluted  
with oil of turpentine, benzine, etc. The coating is brushed  
on and is as resistant to mechanical impact or vibrations  
as Zn coatings.  
M.H.A.

RENSEVICH, N.

Newly established standards. Mest.prom. i khud.promys. 4 no.3:30 Mr '63.  
(MIRA 16:4)

1. Starshiy inzhener otdela issledovaniy i novoy tekhniki TSentral'nogo  
mebel'no-konstruktorskogo byuro Ukrglavmestproma, Kiyev.  
(Wickerwork-Standards)

RENSEVICH, N., inzh.

For economic efficiency of the wicker furniture industry. Prom.  
koop. 13 no.7:6 Jl '59. (MIRA 12:10)

1. Tsentral'noye mebel'no-konstruktorskoye byuro Ukrpromsoveta,  
Kiyev. (Ukraine--Furniture industry)

RENSEVICH, N.A.

Raising the technological level in the manufacture of wicker-work furniture. Bum. i der. prom. no.4:46-49 O-D '63.  
(MIRA 17:3)

1. TSentral'noye mebel'no-konstruktorskoye byuro Ukrainskogo  
soveta narodnogo khozyaystva.

SAMOFALOVA, T.A.; RENSKAYA, K.V.

Activity of the solar photosphere and chromosphere from January  
1 to December 31, 1957, according to observations at the Kharkov  
Astronomical Observatory. TSir.Astron.obser.Khar.un. no.22:3-71  
'60. (MIRA 13:7)

(Sun—Observations)

Khar'kov, S. K V

PHASE I BOOK EXPLOITATION

SOV/4758

Khar'kov. Universitet. Astronomiceskaya observatoriya

Tsirkulyar, no. 22 (Circular of the Astronomical Observatory of Khar'kov State University imeni A. M. Gor'kiy, No. 22) Khar'kov, 1960. 79 p. 1,000 copies printed.

Sponsoring Agencies: Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya UkrSSR; Khar'kovskiy ordena trudovogo krasnogo znameni gosudarstvennyy universitet imeni A. M. Gor'kogo.

Resp. Ed.: N. P. Barabashov, Academician, Academy of Sciences Ukrainskaya SSR;  
Ed.: T. M. Kurilova; Tech. Ed.: N. I. Nikulina.

PURPOSE: This publication is intended for astronomers.

COVERAGE: This issue of the Circular of the Astronomical Observatory at Khar'kov contains 4 astronomical studies. Individual papers present corrections for the orbital elements of minor planets 52 Europa and 152 Atala, and a computational scheme for finding the best Chebyshev approximation for a given

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Circular of the Astronomical Observatory (Cont.)

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function in a given interval of argument change. Extensive tabular data are provided on photospheric and chromospheric activity for 1957. There are no references.

TABLE OF CONTENTS:

Samofalova, T. A., and K. V. Renskaya. Photospheric and Chromospheric Solar Activity From January 1 Through December 31, 1957, According to Observations of the Khar'kov Astronomical Observatory

3

The authors present 5 tables of data. Table 1 contains data characterizing the general state of the photosphere; Table 2 shows data characterizing the active regions of the sun; Table 3 gives a list of intensive flocks not identical with observed sunspot groups (possibly associated with sunspot groups on the concealed side of the sun); Table 4 provides a list of filaments and protuberances; and Table 5 gives a list of protuberances whose height exceeds 60". Universal time is used on all tables. The photosphere was observed visually with a 4-inch refractor and attached screen. The image of the sun on the screen was 151 mm. Areas of sunspots are measured in millionth parts of a hemisphere and corrected for perspective distortion. Chromosphere observations were made photographically on a spectroheliograph. Observations were performed

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Circular of the Astronomical Observatory (Cont.)

SOV/4758

by L. I. Krisenko and V. A. Yezerskaya, R. M. Chirkova, and T. A. Samofalova.  
No references are given.

Bazhenov, G. M. Correcting Orbital Elements of Minor Planet (52) Europa 72

Bazhenov, G. M. Correcting the Orbital Elements of Minor Planet (152) Atala 74

Bazhenov, G. M. Computational Plan to Find the Polynomial Which is the Best Chebyshev Approximation for a Given Function in a Given Interval of Argument Change 76

AVAILABLE: Library of Congress

Card 3/3

JA-dwm-fal  
1-27-61

RENSKAYA, T.

Remote control of main engines with 12,000 hp. (from  
"Motorship). Mor. flot 22 no. 9:43-44 S '62. (MIRA 15:12)

1. Starshiy inzh. Glavnogo upravleniya sudovogo khozyaystva  
i sudoremontykh zavodov.  
(Marine engines) (Remote control)

GREBENNIK, Georgiy Ivanovich; VASYUTIN, Nikolay Dmitriyevich; GENKIN, Arkadiy Lazarevich; STOLBOV, Gennadiy Radionovich; ZUBOV, Vladimir Osipovich; LETUCHIY, Nikolay Vasil'yevich; GORODETSKIY, Vladimir Il'ich; YESYUNIN, Boris Stepanovich; RENSKAYA, T.A., red.; SKOBELING, L.V., red. izd-va; LAVRENOVA, N.B., tekhn. red.

[Operating DR-30/50 engines on ships of the Caspian Ship Line] Opyt ekspluatatsii dvigatelei DR-30/50 na sudakh Kaspiiskogo parokhodstva. Moskva, Izd-vo "Morskoi transport," 1961. 50 p. (MIRA 14:10)  
(Marine diesel engines)

ROMANOV, D.I.; RENSKAYA, T.B.

Four-positional electric contact heating apparatus for heating blanks.  
Trakt. sel'khozmash. no.9:44-45 S '65.

(MIRA 18:10)

1. Nauchno-issledovatel'skiy institut tekhnologii traktornogo i  
sel'skokhozyaystvennogo mashinostroyeniya.

RICHTER, A. F.; OPPLT, J.; s technickou asistenci HENSKE, E. & DOBLOSOVÉ, M.

On nitrogen extraction curves as criteria of the state of the serum  
in physiological equilibrium. Cas.lek.cesk 100 no.50:1568-1577  
15 D '61.

(NITROGEN blood)

...and comparison of the order of grain products.

Geographical and comparative order of grain products.  
Geographical and comparative order of grain products.

Geographical and comparative order of grain products.  
Geographical and comparative order of grain products.

RENSKI, A.

Thirty years of the farinograph.

P. 16. (PRZEGLAD ZBOZOWO-MLYNARSKI) (Warszawa, Poland) Vol. 2, no. 1, Jan. 1958

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

POLAND/Chemical Technology. Chemical Products and  
Their Uses. Part III. Food Industry.

Abs Jour : Ref Zhur-Khimiya, No 15, 1953, 51823

Author : Renski, Antoni

Inst : -  
Title : The Importance of "Feeling" in the Study  
of Grain Products.

Orig Pub : Przegl. zboz.-mylnarski, 1957, 1, No 9,  
16-18, 28

Abstract : By "feeling" one may quite accurately de-  
termine the grind size, its temperature,  
and the moistness of the grain products.  
When using the above testing procedure,  
one must take into account its subjecti-  
vity and the tester's experience. -- Z.  
Fabinskiy

Card : 1/1

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RENSKI, ANTONI

POLAND/Chemical Technology - Chemical Products and Their Application. Food Industry.

I-13

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2925

Author : Renski Antoni

Inst : -  
Title : Baking Quality of Flour

Orig Pub : Przegl. zboz.-mlynarski, 1957, 1, No 1, 21-22

Abstract : Consideration of the concept of baking quality of flour, which ensures the production of good bread, as a combination of physico-chemical characteristics depending on the nature of the grain.

Card 1/1

POLAND/Chemical Technology - Chemical Products and Their  
Applications - Food Industry.

H.

Abs Jour : Ref Zhur - Khimiya, No 11, 1958, 37837  
Author : Renski, A.L.  
Inst :  
Title : Basic Elements of Organoleptic Analysis.  
Orig Pub : Przegl. Zboz.-Mlynarski, 1957, 1, No 6, 4-6

Abstract : Fundamentals of organoleptic analysis, and factors influencing the accuracy of evaluations, as applied in the flour milling industry, are discussed.

Card 1/1

RENSKI, E.

SCIENCE

Periodicals: PRZEGLAD GEODEZYJNY, Vol. 14, no. 2, Feb. 1958.

RENSKI, E. Remarks on symbols and signs on largescale maps. Pt. 2.  
p. 55.

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 4,  
April 1959, Unclass.

R E N S K I , L .

POLAND/Chemical Technology, Chemical Products and Their  
Application, Part 3. - Food Industry.

H-28

Abs Jour: Referat. Zhurnal Khimiya, No 10, 1958, 34213.

Author : L. Renski.

Inst : Not given.

Title : Determination and Comparison of Grain Product Color.

Orig Pub: Przegl. zboż.-młyinarski, 1957, 1, No 7, 9-12.

Abstract: The methods and the importance of the organoleptic determination of grain product color are discussed. Special attention is drawn to the sample size, illumination, incidence angle of light, sample surface, application of instruments and contrast phenomena.

Card : 1/1

L 9788-66 EWT(m)/EWP(w) EM

ACC NR: AP5028499

SOURCE CODE: UR/0286/65/000/020/0079/0079

AUTHORS: Korabel'nikov, Yu. G.; Renskiy, A. B.; Mokin, Ye. G.; Burkowskiy, V. S.

ORG: none

TITLE: A removable strain gauge. Class 42, No. 175694

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 20, 1965, 79

TOPIC TAGS: strain gage, resistance bridge

ABSTRACT: This Author Certificate presents a removable strain gauge consisting of a housing, a moving rod, and a sensing element in the form of a bracket with resistance strain gauges glued to it. To increase sensitivity and accuracy of measurement in any range of strain without interchanging the instrument or interrupting measurements, the gauge is equipped with an additional sensing element in the form of a reinforced bracket with resistance strain gauges glued to it, and a special control nut for connecting the additional sensing element in any measurement range (see Fig. 1). The additional element has higher strain gauge characteristics.

UDC: 620.172.087

Card 1/2

2

L 9788-66

ACC NR: AP5028499

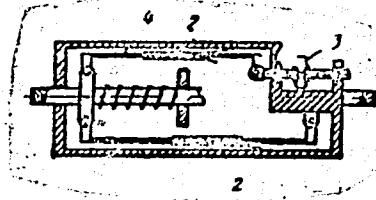


Fig. 1. 1 - Clamp; 2 - strain gauge;  
3 - nut; 4 - auxiliary sensitive  
element.

Orig. art. has: 1 figure.

SUB CODE: 09/ SUBM DATE: 28Feb64

OC  
Card 2/2

KORABEL'NIKOV, Yu.G.; RENSKIY, A.B.

Measuring the deformation of plastics with the aid of a detachable integrated tensiometer. Zav.lab. 31 no.10:1261-1262 '65.  
(MIRA 19:1)

1. Tsentral'nyy nauchno-issledovatel'skiy institut stroitel'nykh konstruktsiy i nauchno-issledovatel'skiy institut zhelezobetona.

RENSKIY, A. B., kand. tekhn. nauk

Method and some results of studying microscopic wire for electro-tensiometric measurements. Trudy TSNIISK no. 14:8-26 '62.  
(MIRA 15:10)

(Wire) (Strain gauges)

RENSKIY, A.B., assistent

Deformability and strength of flanged joints of girders with columns  
in steel frames of industrial buildings. Sbor.trud.MISI no.22:16-58  
' 58. (MIRA 11:12)

(Structural frames)

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24(5)

SOV/170-59-5-9/18

AUTHORS: Rebane, K.K., Rentel', A.A., Sil'd, O.I.

TITLE: On the Accuracy of Different Variants of the Franck-Condon Principle (O tochnosti razlichnykh variantov printsipa Franka-Kondona)

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, 1959, Nr 5, pp 60-69 (USSR)

ABSTRACT: The authors consider some problems in the application of the Franck-Condon principle, in particular the distribution of probabilities in electronic-vibrational transitions for vibrational levels with low quantum numbers. The main part of this investigation applies to a harmonic oscillator whose frequency does not change as a result of an electronic transition. In the first part of their paper the authors describe various methods of determining transitional probabilities, namely: the quantum-mechanical one and 3 forms of semi-classical treatment. In the quantum-mechanical treatment, the authors analyze existing formulae for probabilities of transition from the vibrational level of the n-number ground electronic state into that of the m-number excited electronic state. Using a Krivoglaz formulae [Ref 3] they calculate  $W(n \rightarrow m)$  for  $n = 0, 1$  and  $2$  for two values of the  $p_0$ - quantity which characterizes Stokes'

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On the Accuracy of Different Variants of the Franck-Condon Principle

losses in the number of quanta. The results of calculations are presented in Figures 2 and 3 in the form of the curves in which the  $W(m)$ -values are plotted versus  $m$ . In the semi-classical treatment, the authors, while retaining a part of the classical Franck-Condon principle formulation, modify another part of it by making allowance for the quantum-mechanical distribution of coordinate. They present 3 different forms of semi-classical treatment: B, B<sub>1</sub> and B<sub>2</sub>. The latter two are based on the paper of Dexter [Ref 12]. The second part of the present investigation deals with the applicability of the semi-classical approximation of the B-type in more detail. This approximation is based on the statement that the quantum-mechanical distribution of coordinates goes over into the classical one with an increase of the number of vibrational levels. Analyzing this statement the authors found that a so-called "energy error"  $\Delta \varepsilon$  grows with an increase of the  $m$ -number as it is seen from the following relation:

$$|\Delta \varepsilon| \cong m^{\frac{1}{3}} h \omega$$

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Therefore, they conclude, the B-approximation is not well founded for large values of  $m$ , and this approach becomes inaccurate for  $m \rightarrow \infty$ . The authors thank B.I. Stepanov, Member of the AS Belorussian SSR, and N.N. Kristofel', a research worker of the Institute of Physics and Astronomy of the AS Estonian SSR, for discussing the present paper.

There are 3 graphs, 1 table and 17 references, 11 of which are Soviet, 4 American, 1 German and 1 Italian.

ASSOCIATION:

Gosudarstvennyy universitet, Institut fiziki i astronomii AN ESSR (State University, Institute of Physics and Astronomy of the AS Estonian SSR), Tartu.

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2760. DETERMINATION OF 3,1-BENZPYRENE IN THE EXHAUST GASES OF DIESEL  
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[Heavy industry of the Estonian S.S.R. and prospects for its development] Eesti NSV rasketööstus ja selle arenemisperspektiivid. Tallinn, Eesti Raamat, 1964. 190 p. (MIRA 18:7)  
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USSR/Human and Animal Physiology. Digestion. The Stomach.

T-7

Abs Jour: Ref Zhur-Biol., No 12, 1958, 55739.

Author : Rentova, V. A.

Inst :

Title : Peristaltic Secretory Functions of the Stomach in Certain Brain Diseases.

Orig Pub: V sb.: Klinika i lecheniye zabolеваний zheludka,  
Ordzhonikidze, 1956, 177-184.

Abstract: In 51 patients with organic Brain damages, and in 25 patients with functional disorders of the nervous system ( hysteria), a simultaneous examination of the secretory and motor functions of the stomach (S) was performed according to the method of Bykov-Kurtsin. In 52 patients, stomach akinesia was observed. In the majority of the patients, the tonus of the stomach

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USSR/Human and Animal Physiology. Digestion. The Stomach.

T-7

Abs Jour: Ref Zhur-Biol., No 12, 1958, 55739.

epileptic seizures during the intervals between seizures. Before, after and during seizures, the gastrogram changed sharply.

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CZECHOSLOVAKIA/Chemical Technology - Chemical Products and  
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Abs Jour : Ref Zhur - Khimiya, No 3, 1958, 9537

Author : Rentz J.

Inst :

Title : Activated Brewer's Yeast.

Orig Pub : Kvasny prumysl, 1955, 1, No 5, 102-104

Abstract : A review.

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